

BENTOFIX® LAY-DOWN EQUIPMENT- VISUAL INSPECTION CONDITION REPORT AND USE GUIDE

This document has been prepared as an aid to facilitate the use of the Bentofix® lay-down equipment in the deployment of Bentofix® geosynthetic clay liners in suitable locations, with the use of customer supplied earth moving equipment.

PRE-OPERATIONAL CONSIDERATIONS

- Before operation of the Bentofix® lay-down equipment it is important that you check the equipment supplied and that all equipment to be used is fully operational and safe.
- Read and understand the documentation supplied to ensure that the product is deployed and laid in both a safe and correct method. Return the completed inspection document to Global Synthetics when you have received your lay-down equipment and satisfied yourself that all is in order.
- Should you have any concerns about the safe use of the equipment used in the deployment of the Bentofix® geosynthetic clay liner, contact Global Synthetics.

FOR ENQUIRIES:	WA, SA, NT	Phone: 08 94594300
	NSW, ACT, TAS, VIC	Phone: 02 96310744
	QLD	Phone: 07 38657000

SAFETY PRECAUTIONS AND WORKING TECHNIQUES

- Appropriate safety precautions should be employed as the deployment of the Bentofix® geosynthetic clay liner involves the use of large items of earthmoving equipment such as excavators and cranes and lifting beams and chains. The contractor engaged in the deployment of these products shall be competent in the operation of such equipment and may need to demonstrate that all necessary licenses, safe work method statements and other matters are made available to the client or main contractor as required.
- Do not use the Bentofix® lay-down equipment for any use or application other than for its intended purpose.
- Never modify the equipment in any way.
- Should the user have any doubts about the safe operation of the equipment supplied, the user shall immediately contact Global Synthetics for either advice or return for service. The user shall immediately cease use of the lay-down equipment.
- The Bentofix® lay-down equipment shall never be used in conditions which will endanger any site personnel.

OPERATION

- Ensure all installation staff are fully compliant with site and industry safety conditions.
- Check that the equipment supplied is fully operational and that all components of the lay-down equipment are in sound order.
- Insert the mandrel into the central core of the Bentofix® roll manually.
- Shackle the spreader bar assembly onto suitable deployment equipment.
- Position the spreader bar over (or preferably alongside) the Bentofix® roll to be lifted.
- Attach the end collars onto the mandrel and ensure that the end locking pins are secure.



- Check each chain attachment position on the spreader bar to ensure that chains hang vertically between the spreader bar and mandrel when the roll is lifted. Attach spreader bar to the mandrel such that the roll is horizontal when lifted.
- Raise arm/boom of deployment equipment.
- Move roll to commencement position and remove all outer wrap.
- Unroll the Bentofix® geosynthetic clay liner such that the product is being deployed from the bottom of the roll. Do not deploy the product with the product coming from the top of the roll.
- Ensure that the roll is deployed at a rate no faster than a moderate walking rate. The roll should be deployed such that the required overlaps are achieved from roll edge to roll edge. An overlap line at 300mm is printed on all Bentofix® rolls such that an adequate standard lap is facilitated. Full installation guidelines for the installation of Bentofix® geosynthetic liner are available from Global Synthetics upon request.

BENTOFIX® LAY DOWN EQUIPMENT CONDITION REPORT

CUSTOMER: _____

CHECK OUT DATE: _____ CHECK IN DATE: _____

GLOBAL SYNTHETICS WAREHOUSE LOCATION: _____

MAIN LIFTING BEAM

ITEM	NUMBER OF ITEMS	ITEM NAME	CHECKED OUT	CHECKED IN	REMARKS
1	1	Beam			
2	2	Shackles and Pins			
3	1	Plate Certificate			

ROUND MANDREL

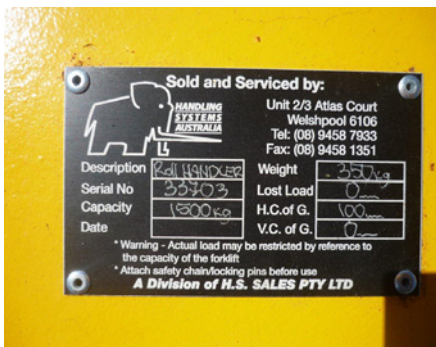
ITEM	NUMBER OF ITEMS	ITEM NAME	CHECKED OUT	CHECKED IN	REMARKS
1	1	Mandrel			
2	2	End Flanges to Mandrel			
3	2	Brass Washers			
4	2	Locking Pins Complete			
5	4	Shackle and Pins			
6	4	Roll Pin Shackle Attachment			
7	2	Chains			
8	2	Metal Chain Compliance Tag			



BENTOFIX® LAY-DOWN COMPONENTS



Beam and Mandrel Bentofix® lay-down equipment. Beam may be lifted by fork arrangement into lifting sleeves or attached with client supplied chains/shackles to beam attachment points.



Beam/mandrel certification data.



Mandrel end detail showing end flange, locking nut and pin, brass washer, shackle and pin and roll pin shackle arrangement.



Connection of mandrel to lifting beam.

1. Global Synthetics P/L or Global Synthetics Qld P/L accept no responsibility for the use of the lay-down equipment in any manner whatsoever.
2. It is the responsibility of those using the lay-down equipment to ensure that all components of the assembly are in sound working order.
3. The lay-down equipment supplied by Global Synthetics P/L and Global Synthetics Qld P/L (with the original/unmodified components) has a safe working capacity of 1500kg.
4. If you are unsure about the safe operation of the lay-down equipment please contact your nearest Global Synthetics representative or alternatively consult a suitably qualified/ certified OH&S person.*

